

S/169/61/000/012/006/089
D228/D305

AUTHORS:

Puchkov, S. V., and Khovanova, R. I.

TITLE:

Seismic observations of expeditions in the southwestern Baykal region

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 12, 1961,
14, abstract 12A131 (Byul. Soveta po seysmol.
AN SSSR, 1960, no. 10, 30-39)

TEXT: Field seismic observations in the southwestern Baykal region, in the area on the eastern side of the epicentral zone of the Mondy earthquake of 1950, were undertaken to study the seismicity of this area and to perfect and develop a procedure of instrumental seismic microzoning. The observations were made at four temporary seismic stations (Arshan, Mondy, Shimki, and Turan) equipped with ВЭГИК (VEGIK) seismographs and ГБ-4 (GB-4) galvanometers with a channel amplification of 13000 - 22000 and S. V. Puchkov's accelerograph system with an amplification of 7. ✓

Card 1/+

S/169/61/000/012/006/089
D228/D305

Seismic observations of...

Between August 1958 and June 1959, the epicentral position for 158 earthquakes was determined from observations at the field stations. A map of the epicenters of these earthquakes is given with an indication of the accuracy of the epicenter determinations and the earthquake energies. In the period of time under consideration, three relatively strong earthquakes (of class 13 ~ 14 according to the TKC \emptyset (TKSE) energy classification) took place, being accompanied by repeated shocks: on August 10 and October 22, 1958, near Kyren in the vicinity of a major regional fault which passes on the northern rim of the Tunki Depression, and on October 29 in the Kitayskiye Gol'tsy area.

A hodograph of the fictitious ($\bar{S}-\bar{R}$) and \bar{P} waves was constructed from the field-station observations. A fictitious velocity (k), equal to 7.6 km/sec., was obtained for the ($\bar{S}-\bar{R}$) wave, the speed for the wave $\bar{P}-vp$ being equal to 5.9 km/sec. The obtained earthquake recordings were also processed with the

Card 2/.

Seismic observations of...

S/169/61/000/012/006/089
D228/D305

aim of establishing the seismic characteristics of the ground on which the field stations were located. Graphs of the frequency of the different periods of the \bar{P} and \bar{S} waves during close earthquakes were compiled for all stations. The analysis of the graphs showed that at the Arshan and Mondy stations, situated on limestones and deposits of boulders and gravel, periods of $0.2 - 0.3$ sec. recur in the longitudinal \bar{P} wave; the periods in the transverse \bar{S} wave equalled $0.4 - 0.5$ sec. At the Shimki and Zhemchug stations, located on lacustrine sands and flood-plain alluvium, the periods in the \bar{P} and \bar{S} waves were $0.3 - 0.4$ and $0.5 - 0.6$ respectively. For dense rocks, the ratio of the amplitudes of transverse waves to those of longitudinal waves is two times smaller than for argillo-arenaceous formations. The coefficients of seismic-wave attenuation were calculated from the records of some earthquakes. The coefficient of attenuation was equal to $(6 - 12)10^{-3} \text{ km}^{-1}$ for longitudinal waves.

Card 3/4

Seismic observations of...

S/169/61/000/012/006/089
D228/D305

waves and $(1.5 \sim 2.5)10^{-3}$ km $^{-1}$ for transverse waves. [Ab-
stracter's note: Complete translation.] ✓

Card 4/4

S/519/60/000/008/017/031
D051/D113

AUTHOR: Puchkov, S.V.

TITLE: Seismic microzoning of the area of the Ashkhabad earthquake of 1948 based on instrumental observations.

SOURCE: Akademiya nauk SSSR. Sovet po seismologii. Byulleten', no. 8, Moscow, 1960. Voprosy seismicheskogo rayonirovaniya, 142-149

TEXT: A system of seismic microzoning of the area of the Ashkhabad earthquake of October 5-6, 1948, based on instrumental observations, is proposed. According to data supplied by Ye.F.Savarenskiy, S.I. Masarskiy and N.A.Linden the epicenter coordinates are 37°08'N-58°06'E. The author utilizes seismic data which he, S.V. Medvedev and A.Z. Kats collected in 1951-53, and data supplied by N.A. Gzelishvili and A.N. Safaryan on structural damages and ground conditions in the area of the earthquake. Field observations were conducted at different points using special seismic stations equipped with highly sensitive instruments. The distribution of the stations is shown in a map included in the article. Altogether, 289 microearthquakes were recorded. On the basis of data, the calculation of which is described in detail, the author established the values of the vector of acceleration of P and S waves. ✓

Card 1/2

Seismic microzoning ...

S/519/60/000/008/017/031
D051/D113

The values corresponding to a given phase and a given earthquake, were used as ordinates in diagrams showing the days of observation on the abscissa. For each pair of stations, two diagrams were obtained which reveal the correlation between the acceleration values of the P and S waves of these stations. Each diagram also gives separately for each type of wave the correlation between the acceleration values in different types of ground. Considering the proportionality between seismic intensity and wave acceleration, the author obtained the values of intensity increments for the passage of the waves from one type of ground to another. These values are given in a table which is considered as a basis for building up a system of seismic microzoning and can also be used for other seismic areas. The included 1:200,000 scale map represents the final system of seismic microzoning for the territory of the Ashkhabad earthquake. It was compiled by establishing the relative seismic intensity values for each observation station. Comparing these data with the entire system of grounds, the territory could be divided into zones of different seismic danger depending on the type of ground. There are 4 figures, 2 tables and 5 Soviet references.

ASSOCIATION: Institut fiziki Zemli AN SSSR (Institute of Physics of the Earth of the AS USSR)

Card 2/2

S/169/61/000/008/004/053
A006/A101

AUTHOR: Puchkov, S. V.

TITLE: Some problems in the instrumental determination of rheological properties of grounds, based on the propagation of seismic waves

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 8, 1961, 5, abstract 8A43
("Tr. In-ta fiz. Zemli AN SSSR", 1960, no. 10, 118-132)

TEXT: The Maxwell theory is employed to study the propagation of seismic waves and to determine the rheological properties of the earth crust and grounds. An elastic-plastic medium is studied, which not only undergoes shear deformation, but also all-sided expansion or compression. Differential equations were obtained for the motion of an elastic-plastic medium, formulae determining the propagation velocity of longitudinal and transverse waves, and correlations for the damping factor and relaxation time of the medium. The damping factor of transverse waves appeared to be inversely proportional to the coefficient of viscosity of the medium. Consequently, in a medium of high viscosity, transverse waves are damped more slowly and prevail over the longitudinal waves. On the other hand, in a medium of low viscosity, longitudinal waves must be

Card 1/2

S/169/61/000/008/004/053

A006/A101

Some problems in the instrumental ...

predominant, whose damping factor is directly proportional to viscosity. Such prevalences are confirmed by instrumental observations. Data from instrumental observations of seismic wave propagation can be used to determine the damping factor and then to calculate the relaxation time from the equation relating the damping factor and the relaxation time.

R. Khovanova

✓

[Abstracter's note: Complete translation]

Card 2/2

PHASE I BOOK EXPORTATION

SON/5354

Akademija nauk SSSR. Institut fiziki Zemli
 Voprosy inzhenernoj seismologii, vyp. 3 (Problems in Engineering Seismology,
 No. 3) Moscow, 1960. 191 p., 1,700 copies printed. (Series: Its: Trudy,
 no. 10 (177))

Repr. Info.: S.V. Matrosov, Doctor of Technical Science, and A.Z. Kata, Kibernetika;
 Candidate of Physics and Mathematics; Ed. of Publishing house: L.K. Kikolyeva;
 Tech. Ed.: P.S. Mashina.

PURPOSE: This book is intended for seismologists, and engineers concerned with
 the construction of earthquake-resistant buildings.

COVER: This is a collection of 15 articles by different authors on problems
 of engineering seismology. Individual articles discuss the effects of seismic
 waves on various structures; seismic activity in the Socchi-Krasnodar, Krasnaya Polyana,
 and Polovoz-Ural'sky regions; and ground vibrations during strong earthquakes.
 One article discusses the effect of the detonation of 5100 tons of explosives
 on buildings located 1000 m away. No personalities are mentioned. Each article
 is accompanied by references.

TABLE OF CONTENTS:

Bulavaych, Ye.-M., B.A. Vecheslavov, V.K. Iodko, N.V. Kondoritskij, P.G. Semenov, A.A. Tsvetkov, V.I. Ul'yanov, and A.I. Tikhonov. <u>3</u>
Editorial of Strong Earthquakes in the USSR During 1957
Kata, A.Z. <u>Seismic Microzonalization of the Socchi-Krasnodar Zone</u> <u>27</u>
Matrosov, S.V. <u>Accelerations of Ground Vibrations in Strong Earthquake</u> <u>32</u>
Rustamovich, D.I. <u>Epicentral Zone of the Krasnaya Polyana Earthquake</u> <u>90</u>
Tian, Kuo-ch-tuan. <u>On Applying the Theory of Probability to Problems of Engineering Seismology</u> <u>99</u>
Yeh, Shih-Jien. <u>Methods of Registering Ground Vibrations in Strong Earthquakes</u> <u>105</u>
Kata, S.A. <u>Propagation of Vibrations in a One-Dimensional Discrete Medium</u> <u>112</u>
Bulavaych, Ye. <u>Some Problems in the Instrumental Determination of Seismological Properties of the Subsurface, Based on Seismic Wave Propagation</u> <u>118</u>
Konf, M.G. <u>Evaluating the Engineering Characteristics of Earthquakes</u> ^a <u>123</u>
Chang, Teek-jung. <u>Regarding Seismic Stresses on Structures</u> <u>135</u>
Izmailova, G.A. <u>On Determining the Seismic Properties of Subsurfaces With a Portable Seismic Station</u> <u>141</u>
Zemel'skiy, K.M. <u>Measuring the Level and the Spectral Composition of Short-Period Microseisms</u> <u>152</u>
Chang, Teek-jung. <u>Regarding Seismic Stresses on Structures</u> <u>165</u>
Kata, A.Z. <u>On the Nature of Vibrations in Some Rigid Heavy Structures</u> <u>175</u>
During Seismic Wave Propagation
Konf, M.G. <u>Applying Seismometric Data to Computations for Seismic- Resistant Structures</u> <u>182</u>
Tershov, I.A., and G.A. Lyamkina. <u>On the Seismic Effect of an Explosion in the Polarovo-Ural'skiy Region</u> <u>189</u>
AVAILABLE: Library of Congress
Card 1/4

JA/bms/mas
6-28-61

(14)

PUCHKOV, S.V.

Establishing seismic regions in the zone of the Ashkabad
earthquake of 1948 on the basis of instrumental observations.
Biul. Sov. po seism. no.3:142-149 '60. (MIRA 13:10)

1. Institut fiziki Zemli AN SSSR.
(Turkmenistan--Seismology)

PUCHKOV, S.V.

Dividing the zone of the ashkhabad earthquake of 1948 into
microregions on the basis of instrumental seismic observations.
Trudy Inst.fiz.zem. no.5:60-80 '59. (MIRA 13:6)
(Turkmenistan--Seismology)

Pushkarev, S.V.

217/433

PAGE 1 BOOK EXPLANATION

Akademika nauch. serii. Sovet po geologicheskim issledovaniyam, No. 61. "Geotekhnicheskaya regionalizatsiya SSSR i voprosy ikh primeneniya v tektonike i tektonicheskoye raionirovaniye SSSR." Akademiya Nauk SSSR, Geologicheskii Konservatorii, Glavnoye upravleniye po geologicheskym issledovaniyam i regional'noy raionirovaniye SSSR. Tsentral'nyy geologicheskiy institut. Izdatel'stvo Akademii Nauk SSSR. Moscow, 1958. 120 p., 1000 copies printed.	63
Rep. Ed. I. V. Mikhalev, Doctor of Geological Sciences, USSR, and I. A. Kostylev, Doctor of Geological Sciences, USSR, and I. E. Mihaleva, PhD, USSR.	63
Editor: I. A. Kostylev, and I. E. Mihaleva; Text: I. V. Mikhalev.	63
REMARKS: This publication is intended for geologists.	63
CONTENTS: The publication contains detailed material on the methods of regionalization based on geological data, which are described in the article "Problems in Methods of Regionalization Based on Geological Data," and also on the methods of regionalization based on seismic data, which are described in the article "Seismic Regionalization." The publication also contains a number of articles on the regionalization of the Soviet Union, the U.S.S.R., and the regions of the Soviet Union, and the results of regionalization based on geological data, seismic data, and other data. The publications are accompanied by diagrams, tables, and bibliographical references.	63
Yudinich, N. A. "Utilizing Data Collected on Weak Earthquakes in Problems of Seismological Regionalization."	63
Gorodetsk, M. V. "Methods Physics and Seismic Regionalization."	67
Dolgikh, A. V. "Physical Principles of a Method of Seismic Microzonation."	70
Report, V. V. "Role of Hydrogenous Geological Conditions in Detailed Seismological Regionalization."	80
Sazanov, A. M. "Problems in Methods of Seismic Regionalization Based on the Seismicity of the Partial Seismocentre Region in the Stepanian Gora Section in the Goriyan Gora."	80
Slobodchikov, L. M. "Earthquakes in November 1950 in Poltava and Alchevsk Regions and Problems of Colossal Regionalization of the South-Western Part of the USSR."	93
Kryazhev, Yu. I., and A. P. Shishkov. "Seismic Principles of Seismological Regionalization of the Caucasus."	99
Milutin, F. S. "Microseismic Data on Earthquakes in the Northern Caucasus."	105
Bazantsev, V. Yu., and D. M. Ruzmetov. "Seismicity and Recent Tectonics of the Zone of the Transcaucasian Polyana Earthquakes."	110
Rubishchev, M. M. "Geological Criteria in the Seismic Regionalization of Georgia."	116
Kharkov, I. I., and A. A. Kostylev. "A Method of Compiling Maps of Seismic Regionalization on a Scale of 1:1,000,000 Using the Gamma-ray Method."	121
Zhuravlev, I. V. "On Seismic Conditions in Transcaucasia, Turkey, and Iran."	125
Semenov, I. A., V. A. Mihalev, and I. M. Leont'ev. "Attempts at Detailed Seismic Regionalization Based on one of the Districts of Western Armenia."	131
Dobrokhod, A. I. "Seismic Microzonization of the Area of the Azat River Region of 1949 Based on Tectonometrical Data."	142
Kostylev, I. P. "Variations in the Role of the Mountainous Regions of Southern Central Asia Based on the Examples of the Mountainous Regions of Southern Central Asia."	150

PUCHKOV, S.

They got rid of a pack of wolves. Znan.ta pratsia no.2:23
F '60. (MIRA 13:5)
(Kiev Province--Wolves)

5.

Puchkov, S.V.

SOV/49-99-10-19/19

- AUTHOR: Solov'yev, S. I.
- TITLE: Session on Seismology and Tectonics of the Pre-Balkal and the Adjacent Regions
- PERIODICAL: Izvestiya Akademii Nauk SSSR. Seriya geofizicheskaya. 1959, Nr. 10, pp. 1527-1523 (USSR)
- ABSTRACT: The Session took place on June 9-10, 1959. It was convened by the Director of the Earth Sciences Geological Institute, Ac. Sc. USSR, the Earth Sciences Geological Institute, Ac. Sc. USSR, the Irkutsk State University. It was opened by the Chairman of the East Siberian Bureau of Geodesy and Surveying, Prof. V. A. Puchkov. The following scientists submitted their reports:
- (Seismological Station Irkutsk) - V. A. Puchkov
 - N. A. Florinov (Earth Sciences Geological Institute) - Results obtained from Excavated Rocks, Ac. Sc. USSR
 - Petrushevsky (Institute of Physics of the Earth, Ac. Sc. USSR) - Geological Development in South Siberia, Ac. Sc. USSR
 - V. A. Arsen'ev (Moscow) - Geomorphology and Glaciology
 - Sokol'skaya (Institute of Geophysics of Novosibirsk, I. A. Rejikov) - Results of the Institute of Physics of the Earth, Ac. Sc. USSR
 - of the Far East, V. I. Danilovich (Kreml'sk Institute of Mining and Metallurgy) - Meteorological peculiarities of the Pre-Balkal, N. P. Ladozhin (East Siberian Geological Institute) - Tectonic Actions of the Bottom Gulf Province, V. P. Sosulin and I. A. Ploshchikova (East Siberian Geological Institute) - Foci of Gobi-Altaic Earthquakes, Sh. V. Puchkov and P. N. Rukavina (Institute of Physics of the Earth, Ac. Sc. USSR) - Results of the Pre-Balkal Volcanic Expedition, S. N. Solov'yev (Council on Science, Ac. Sc. USSR) - Analysis of Thermochemical Changes in the Pre-Balkal, K. V. Pashutinov (Siberian Station Irkutsk) and A. V. Vaynshteyn (Irkutsk) - Institute of Physics of the Earth, Ac. Sc. USSR
 - I. M. Buldakova (Institute of Physics of Siberia, Ac. Sc. USSR) - Problems in the Foci of Siberian Earthquakes, A. P. Bulyakov (Irkutsk University) - Chair of Geodynamics, International Academy of the Pre-Balkal, V. Ya. Gorchakov (Chair of the Siberian Geological Institute) - Institute of the Earth Sciences of the Irkutsk University, L. A. Dobrotol'skaya (Institute of the Earth Sciences of the Irkutsk University) - Institute of Physics, Severyn'ye and A. P. Lazarev (Institute of Physics of the Earth, Ac. Sc. USSR) - Ocean Characteristics of the Earth's Crust in the Arctic Sea, G. P. Chernyayev (Scientific Station Petropavlovsk) - Serebryukov in Kamchatka on the 4 May 1959, N. G. Arribulov (Institute of Geology, Ac. Sc. USSR) - Fold Formations in Archangelsk-Polynbul'ka, L. I. Shumilina (Institute of Geography and Meteorology, Ac. Sc. USSR) - Geological Institute of the Far East, L. V. Gulyaeva and I. V. Mironchuk (Committee for Sciences and Higher Schools, Union of Soviet Socialist Republics) - Tectonics of Central Asia, Osh, who took part in the discussions were Corresponding Members of the Ac. Sc. USSR, Dr. Sc. Putilov and Yu. A. Kozulin, Yu. M. Okintsov, and the Deputy Director of the Institute of Physics of the Earth, Ac. Sc. USSR, Ye. A. Kornilov. The Session was closed by the Rector of the Irkutsk University, V. Ya. Rogov.

Card 1/a

✓

Card 2/a

✓

7-3

I. 22658-66

EWT(1)/EWA(h) Gw

ACC NR. AT6007201

SOURCE CODE: UR/2619/65/000/036/0105/0114

AUTHOR: Puchkov, S. V.

28

B+1

ORG: none*

12/4/55

TITLE: Importance of local relief in seismic microregionalization.

SOURCE: *AN SSSR. Institut fiziki Zemli. Trudy, no. 36 (203), 1965. Seysmicheskoye mikrorayonirovaniye; voprosy inzhenernoy seysmologii (Seismic microdistricting; problems of engineering seismology), no. 10, 105-114

TOPIC TAGS: seismology, seismic regionalization, seismic wave propagation velocity

ABSTRACT: The propagation of longitudinal seismic waves in a rock formation of volcanic tuff during localized, minor earthquakes (20–25 a month) some with magnitudes of 5–6) were studied from the standpoint of large-scale seismic mapping and hydroelectric engineering projects. The investigations were conducted in the Tunkin Depression by the Baykal Seismological Expedition of the Institute of the Physics of the Earth, AN SSSR. The feature investigated was a rock formation shaped like a truncated cone 60 m high with a base perimeter of 2 km. The equipment consisted of VEGIK seismographs and galvanometers having natural periods of 1 and 0.06 sec., respectively. The apparatus had broad-band frequency characteristics and a maximum magnification of 22,000. The instruments were installed at three points—at the base, half way up the side, and at the summit. The vertical and the horizontal

Card 1/2 *Stu*

2

L 22658-66

ACC NR: AT6007201

N-S components were measured at the base and only the vertical component at the mid-point and summit. Local tremors and industrial explosions in the vicinity of Cheremkhovo were registered and analyzed. Curves of the changes in amplitude of displacement and velocities were plotted as functions of the period of vibrations at the observation points. Assuming that the configuration of rock formations is, to some extent, due to seismic loads, an attempt is made to obtain the profile of a rock formation due solely to the action of earthquakes. An equation is derived to express the motion of longitudinal and transverse shear waves in dome-shaped tuff bodies. The velocity of longitudinal waves in tuff was found to be 1200 m/sec and of transverse waves 700 m/sec with periods generally ranging from 0.2—0.5 sec, and the displacement amplitudes and particle velocities were found to increase from the base to the summit by a factor of 6—8. Theoretical calculations agreed satisfactorily with measured data. An example of the calculations is given in the original article. Orig. art. has: 5 figures, 13 formulas, and 2 tables. [EO]

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 002/ ATD PRESS: 4216

Card 2/2 4W

PUCHKOV, V.; POVSIN, N.

Problems worth attention. Fin.SSSR 21 no.6:72 Je '60.
(MIRA 13:6)

1. Nachal'nik Upravleniya gostrudsberkass i goskredita Tatarskoy ASSR (for Puchkov). 2. Glavnnyy bukhgalter Upravleniya gostrudsberkass i goskredita Tatarskoy ASSR (for Povesin).
(Tatar A.S.S.R.--Savings banks--Accounting)

PUCHKOV, V.

How we train machine operators. Prof.-tek.h.obr. 22 no.8:31
(MIRA 18:12)
Ag '65.

1. Starshiy inzh. po podgotovke kadrov zavoda KAMZ, g. Kiyev.

SHIGORIN, D.N.; SHCHEGLOVA, N.A.; DOKUNIKHIN, N.S.; PUCHKOV, V.A.

Nature of the hydrogen bond, and its effect on the electronic
spectra of molecules. Dokl.AN SSSR 132 no.6:1372-1375
(MIRA 13:6)
Je '60.

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Predstavleno
akademikom A.N. Tereninym.
(Hydrogen) (Spectrum, Molecular)

Puchkov v.t.
5.4/30
AUTHORS:

Shigorin, D. N., Shcheglova, N. A., Dokunikhin, N. S.,
Puchkov, V. A.

TITLE:
The Nature of the Hydrogen Bond and Its Influence on the
Electron Spectrum of Molecules

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 6,
pp. 1372 - 1375

TEXT: In the introduction, the authors discuss data published on the influence of the hydrogen bond on the vibration spectra of molecules, mentioning papers by N. D. Sokolov (Ref. 1) and A. N. Frumkin (Ref. 5). Then, they investigate the coplanar system of α -hydroxy anthraquinone, in which a π -electron interaction takes place, and the C=O group is decisive for the electron excitation. The authors assume the formation of a quasiaromatic ring by means of the H-bond (Fig. 1). The investigation of the electron vibration spectra of this compound and some of its derivatives yielded the valence vibration of the C=O group in the basic state. On absorption of a light quantum, a change in the distribution of

Card 1/3

81416

s/020/60/132/06/41/068
B004/B005

81416

The Nature of the Hydrogen Bond and Its
Influence on the Electron Spectrum of Molecules

S/020/60/132/06/41/068
B004/B005

the electron density, of the interatomic distances, etc. occurs which may lead to a solidification of the ring containing the H-bond ($O-H \dots O=C$). In the excited state, the action of the p-orbit of the H-atom becomes more probable. The rate of transformation of electron energy into vibration energy, and the probability of a redistribution of vibration energy on sublevels increase in this connection. The life of each excited vibration is reduced, and the luminescence spectra of the compounds containing the H-bond have a blurred fine structure. This is confirmed by the luminescence spectra of 1-hydroxy-, 1,4-, and 1,5-hydroxy anthraquinone which in fact show no fine structure (Fig. 2, insert after p. 1341). The luminescence spectra of α -methyl-, α -methoxy-, and α -phenyl anthraquinone (Fig. 2) having no H-bond show a fine structure. The data of the spectra are compiled in Table 1. The difference between absorption- and emission spectra is discussed; it is explained by the circumstance that the structure of the molecule and its electronic state change with the absorption of the energy quantum $h\nu_{abs}$; this change is only eliminated after emission of the light quantum $h\nu_{emiss}$. In substances with H-bond, the excited electron level formed after absorption of $h\nu_{abs}$ is not

Card 2/3

81416.

The Nature of the Hydrogen Bond and Its Influence
on the Electron Spectrum of Molecules S/020/60/132/06/41/068
B004/B005

identical with the electron level at which emission begins (Fig. 3).
Coplanarity is a condition for the occurrence of such intramolecular
bonds. The increased interaction of a bridge with H-bond on the basis of
9-(p-hydroxy)-phenyl acridine investigated by A. N. Terenin and
V. V. Shablya (Ref. 13), and the important role of these phenomena in
migration processes of the energy in high-molecular compounds (polyamides,
protein, etc.) are pointed out. Levshin's law of mirror symmetry is
mentioned. There are 2 figures, 1 table, and 15 references: 14 Soviet,
1 British, and 1 US. X

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova
(Physical-chemical Institute imeni L. Ya. Karpov)

PRESENTED: February 11, 1960, by A. N. Terenin, Academician

SUBMITTED: February 14, 1960

Card 3/3

PUCHKOV, V.A.

Synthesis of 5-substituted 1-phenylanthraquinone. Zhur.VKHO⁶
no.4:477 '61. (MIRA 14:7)

I. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov
i krasiteley imeni K.Ye.Voroshilova.
(Anthraquinone)

PUCHKOV, V.A.; KURDYUMOVA, T.N.

Investigations in the field of polycyclic compounds.
Part 1: Reductive cleavage of 1,4-disubstituted 6-arylamino-1',
9'-anthrapyridones in an alkaline medium. Zhur. ob. khim. 32
(MIRA 15:2)
no.2:638-644 F '62.
(Dibenzisoquinoline)

PUCHKOV, V.A.; KURDYUMOVA, T.N.

Polycyclic compounds. Part 2: Elimination of substituents in
1,4-disubstituted 6-arylamino-1',9'-anthrapyridones. Zhur.ob.-
khim. 32 no.3:950-955 Mr '62. (MIRA 15:3)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov
i krasiteley.
(Dibenzoquinolines)

NURMUKHAMEDOV, R.N.; K CZLOV, Yu.I.; SHIGORIN, D.N.; PUCHKOV, V.A.

Luminescence spectra of azomethine compounds. Dokl. AN SSSR 143
no. 5:1145-1148 Ap '62. (MIRA 15:4)

1. Predstavлено академиком А.Н. Терениным.
(Schiff bases--Spectra)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343520012-0

NURMUKHAMTOV, R.N.; SHIGORIN, D.N.; KOZLOV, Yu.I.; PUCHKOV, V.A.

Effect of the hydrogen bond on the luminescence of hydroxy-
and amino azo compounds. Opt. i spektr. 11 no.5:606-
612 N '61. (NIRA 14:10)
(Azo compounds--Spectra)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343520012-0"

PUCHKOV, V.A.

A.I. Kizber's studies in the field of the synthesis of aromatic
aminocarboxylic acids. Org. poluprod. i kras., no.1:140-
147 '59. (MFA 14:1)

(Acids)

BRUNZEL', Yu.M., inzh.; REGIRER, Z.L., inzh.; SVET, B.I., inzh.;
PUCHKOV, V.A., inzh.

Automatic control of carbon potential in gas carburizing.
Metalloved. i term. obr. met. no.11:41-45 N '62. (MIRA 15:11)
(Case hardening—Equipment and supplies)

PUCHKOV, V.A.

Homolytic degradation of aromatic triazenes. Khim.nauka i prom.
4 no.4:549 '59. (MIRA 13:8)

1. Nauchno-issledovatel'skiy institut poluproduktov i krasiteley
imeni K.Ye.Voroshilova.
(Triaznes)

PUCHKOV, V. A., Cand Chem Sci (diss) -- "Investigation of the transformations of diazoamino compounds into diaryl amines". Moscow, 1960. 9 pp (Min Educ RSFSR, Moscow City Pedagogical Inst im V. P. Potemkin), 120 copies (KL, No 10, 1960, 126)

PUCHKOV, V. A.

Transformations in the series of diazoamino compounds.
 I. Thermal decomposition of carboxy-substituted diazoaminobenzenes. A. I. Kizber and V. A. Puchkov. (Sci. Research Inst. Org. Intermed. and Dyes, Moscow). *Zhur. Osnovai. Khim.* 27, 2208-13 (1957). To 54 g. anthracene at 275° was added rapidly 10.8 g. di-k-4,4'-diazoamino-benzenedicarboxylate, resulting in exothermic reaction, after 4-5 min. the mixt. cooled, treated with H₂O, and acidified, yielding 6.7 g. solid, m. 200-5°, which treated with Ca(OH)₂, filtered and acidified gave 4.75 g. pure 4,4'-diphenylaminocarboxylic acid, m. 321-3°, which with MeOH-dry HCl gave the di-Me ester, m. 175.5-0.5°; the di-Et ester, m. 117-17.5°. To 0.1 mole ρ -ClC₆H₄NH₂ in 50 ml. MeOH was added 0.1 mole ρ -HOCC₆H₄NCl and the mixt. adjusted to pH 4-4.5, yielding a ppt. of 21 g. 4-chlorodiazooaminobenzene-4'-carboxylic acid, decomp. 169-9.5° (EtOAc), the K salt of which added to octadecyl alc. at 275-90° gave 4-chloro-4'-diphenylaminocarboxylic acid (I), m. 204-5°; the filtrate gave ρ -H₂NC₆H₄CO₂H. The product is sol. in concd. HCl and on heating above the m.p. it yields 4-chlorodiphenylamine. The reaction mixt. also yields a small amt. of an aminochlorobiphenylcarboxylic acid, m. 232-9°, the structure of which was undetd. I forms the Me ester, m. 144.5-45°, and Et ester, m. 134.5-35°. Refluxing 4-nitro-4'-methylidiphenylamine with AcOH-Ac₂O gave the N-acetyl deriv., m. 113-14°, which heated with ad. KMnO₄ in CO₂ atm. 4 hrs. gave on acidification 4-nitro-N-acetyl diphenylamine-4'-carboxylic acid, m. 239°, which reduced with Zn-HCl-AcOH and the reduction product diazotized *in situ* and treated with HCl-Cu₂Cl₃ gave 4-chloro-N-acetyl diphenylamine-4'-carboxylic acid, which was saponified with 6% KOH to I. Addn. of 4-methyl-diazoaminobenzene-4-carboxylic acid as the K salt to anthracene at 270° gave 4-methylidiphenylamine-4'-carboxylic acid, m. 185-6°, also prep'd. from ρ -BrC₆H₄CO₂H and ρ -toluidine; the pyrolysis above also gave 4,4'-diphenylaminocarboxylic acid.

PUCHKOV, V.A.

Formation of arylaminoanthraquinones from diazoamino compounds.
Khim.nauka i prom. 3 no.6:839-840 '58. (MIRA 12:2)

I. Nauchno-issledovatel'skiy institut poluproduktov i krasiteley
imeni K.Ye. Voroshilova.
(Diazoamino compounds) (Anthraquinone)

KIZBER, A.I.; PUCHKOV, V.A.

Conversions in the series of diazoamino compounds. Part 1: Thermal decomposition of carboxy-substituted diazoaminobenzene. Zhur. ob. khim. 27 no.8:2208-2213 Ag '57. (MLRA 10:9)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley.

(Aniline)

·5(3)·

SOV/79-29-9-56/76

AUTHOR: Puchkov, V. A.TITLE: Transformations in the Series of the Diazoamino Compounds.
II. Thermal Decomposition of the Substituted Anthraquinonyl
Phenyl Triazines-1,3PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 9, pp 3058-3064
(USSR)

ABSTRACT: In continuation of the papers of references 1-5, among them those by A. I. Kizber (Ref 1), I. S. Ioffe and A. P. Yershov (Ref 3), concerning the transformations of the diazoamino compounds by thermal methods, the author was interested in similar transformations of aromatic diazoamino compounds containing an anthraquinone residue e.g. 1'- and 2'-anthraquinonyl phenyl triazine-1,3 into the substituted 1- and 2-phenyl aminoanthraquinones. For this purpose the compounds cf this type (IV)-(VII) were produced. In the thermal decomposition of the potassium salts of 2'- and 1'-anthraquinonyl-p-carboxyphenyl triazine-1,3 at 270-290° in organic media 2'- and 1'-p-carboxyphenyl aminoanthraquinones are formed in yields of 45-52%. Under the same conditions 2- and 1-p-tolyl aminoanthraquinones

Card 1/3

SOV/79-29-9-56/76

Transformations in the Series of the Diazoamino Compounds. II. Thermal Decomposition of the Substituted Anthraquinonyl Phenyl Triazines-1,3

were obtained from 2'- and 1'-anthraquinonyl-p-tolyl triazines-1,3 (5-20%). Besides the aryl aminoanthraquinones primary aromatic amines are formed in this decomposition: an isomeric form of 1- and 2-aminoanthraquinone and p-aminobenzoic acid. 1'-anthraquinonyl-p-carboxyphenyl-, 1'-anthraquinonyl-p-tolyl- and 2'-anthraquinonyl-p-tolyl triazine-1,3 reacts in the thermal decomposition with the hydrogen of the nitrogen directly linked to the anthraquinone ring, which fully explains the formation of a primary amine (of 1- or 2-aminoanthraquinone). In the decomposition of 2'-anthraquinonyl-p-carboxyphenyl-triazine-1,3 two primary amines (2-aminoanthraquinone and p-aminobenzoic acid) result which correspond to two possible triazine structures. It is assumed that in the 1'-anthraquinonyl phenyl triazines-1,3 the stabilization of the structure with the hydrogen atom of the nitrogen linked to the anthraquinone ring is due to the formation of an inner molecular bond of hydrogen with the carbonyl of anthraquinone. The stabilization of the corresponding form in 2'-anthraquinonyl-p-tolyl triazine-1,3 is probably due to the electro-negative character of the anthraquinone cycle. There are

Card 2/3

SOV/79-29-9-56/76

Transformations in the Series of the Diazoamino Compounds. II. Thermal Decomposition of the Substituted Anthraquinonyl Phenyl Triazines-1,3

11 references, 4 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley imeni K. Ye. Voroshilova (Scientific Research Institute of Organic Intermediate Products and Dye-stuffs imeni K. Ye. Voroshilov)

SUBMITTED: August 4, 1958

Card 3/3

TOVAROVA, I. I.; KORNITSKAYA, Ye. Ya.; PUCHKOV, V. A.; VUL'FSON, N. S.; KHOKHLOV, A. S.

"A study of streptomycin biosynthesis."

report submitted for Antibiotics Cong, Prague, 15-19 Jun 64.

Inst for Chemistry of Natural Compounds, AS USSR, Moscow.

KOZLOV, Yu.I.; SHIGORIN, D.N.; NURMUKHAMEDOV, R.N.; PUCHKOV, V.A.

Phototransfer of a proton in the quasiaromatic ring with H-bonding. Zhur. fiz. khim. 37 no.11:2432-2444 N'63.
(MIRA 17:2)
I. Fiziko-khimicheskiy institut imeni L.Ya. Karpova, Moskva.

VUL'FSON, N.S.; STEPANOV, V.M.; PUCHKOV, V.A.; ZYAKUN, A.M.

Mass spectra of phenylthiohydantoins of amino acids. Izv. AN
SSSR. Ser. khim. no.8:1524-1525 Ag '63. (MIRA 16:9)

1. Institut khimii prirodykh soyedineniy AN SSSR.
(Amino acids) (Hydantoin) (Mass spectrometry)

AUTHOR: Puchkov, V.A.

TITLE: Formation of Arylaminoanthraquinones from Nitrile Anhydrides
(Obrazovaniye arylaminoanthraquinonov iz iminokislot, tifenny)

PUBLICAL: Khimicheskaya nauka i promyshlennost', 1958, Vol III, Nr 6,
pp 839-840 (USSR)

ABSTRACT: The thermal decomposition of triazenes containing an anthraquinone rest (see Table) has been investigated. The products were double-decomposed 1- and 2-phenylaminoanthraquinones and 1- and 2-aminoanthraquinones. In 1-(2'-anthraquinonyl)-5-phenyltriazenes there is no possibility for the formation of a hydrogen bond, therefore two primary amines must be expected. Besides 2-aminoanthraquinone the n-aminobenzoic acid could be isolated.

There is 1 table and 3 Soviet references.

ANNOUNCEMENT: volskovo-izdatel'skiy institut poluproduktov i krasitelya
of N.Ya. Vorechilova (Scientific Research Institute of Intermediate Products and Dyestuff N.Ya. Vorechilov)

SUBMITTED: July 19, 1958

Card 1/1

VUL'FSON, N.S.; ZARETSKIY, V.I.; PUCHKOV, V.A.; ZAIKIN, V.G.; SHKROB, A.M.;
ANTONOV, V.A.; SHEMYAKIN, M.M., akademik

Mutual transformations of cyclols and cyclodepsipeptides studied
by the method of fragmentary mass spectrometry. Dokl. AN SSSR
153 no.2:336-339 N '63. (MIRA 16:12)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

Puchkov, V. A.

3

Acid anthraguinone dyes. A. I. Kizber and V. A.
Puchkov. U.S.S.R. 100,003. July 25, 1957. A red dye
is obtained by heating 1-amino-4-(2,4,6-trimethylanilino)-
2-aryloxyanthraquinone with urea at 175-180°. The re-
sulting deriv. of the anthrapyrimidone series is sulfonated
and sepd. by known means. M. Hoch

PM
MT

PUCHKOV, V.A.; STEPANOV, V.M.; VUL'FSON, N.S.; ZYAKUN, A.M.; KRIVTSOV, V.F.

Mass spectrometry of amino acid methylthiophydantoin. Dokl.
AN SSSR 157 no.5:1160-1163 Ag '64. (MIRA 17:9)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

GORKIN, V.Z.; KITROSSKIY, N.A.; KLYASHTORIN, L.B.; KOMISSAROVA, N.V.;
LEONT'YEVA, G.A.; PUCHKOV, V.A.

Substrate specificity of amino acid oxidase. Biokhimiia 29 no.1:
(MIRA 18:12)
88-96 Ja-F '64.

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR i
Institut khimii prirodnnykh soyedineniy AN SSSR, Moskva.
Submitted April 28, 1963.

BCHIKAREV, V.N.; FUCHKOV, V.A.; VUL'FSON, N.S.; SHEMYAKIN, M.M.; OVCHINNIKOV,
Yu.A.; KIRYUSHKIN, A.A.; IVANOV, V.T.; VINOGRADOVA, Ye.I.; ALDANOVA, N.A.

Depsipeptides. Part 51: Mass spectrometric study of cyclotetradepsipeptides
of regular structure. Khim.prirod.sosed. 1:52-58 '85.
(MIRA 18:6)

1. Institut khimii prirodnnykh soyedineniy AN SSSR.

PUCHKOV, V.A.

Synthesis of phenylanthraquinone. Zhur. VKHO 6 no.2:238-239 '61.
(MIRA 14:3)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov
i krasiteley imeni K. Ye. Voroshilova.
(Anthraquinone)

PUCHKOV, V.A.

1-(1'-Anthraquinonyl)-3,3 diethyltriazene and its transformations.
Zhur. VKHO 6 no.2:240 '61. (MIRA 14:3)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov
i krasiteley imeni K.Ye. Voroshilova.
(Triazene)

STEPANOV, V.M.; VUL'FSON, N.S.; PUCHKOV, V.A.; ZYKIN, A.M.

Mass spectrometry of amino acid derivatives. Mass spectra of
phenylthiohydantoins of aliphatic amino acids, phenylalanine,
tyrosine, and proline. Zhur. ob. khim. 34 no.11:3771-3779
(MIRA 18:1)
N '64

1. Institut khimii prirodnykh soyedineniy AN SSSR.

PUCHKOV, V.F.

Differences in the development of male and female gonads in
frogs. Trudy ISGMI 45:158-163 '58 (MIRA 11:11)

1. Kafedra obshchey biologii Leningradskogo sanitarno-gigiyeni-
cheskogo meditsinskogo instituta (zav. kafedroy - chlen-korrespondent
AMN SSSR, prof. P.V. Makarov).
(GENERATIVE ORGANS)
(FROGS)

27.24-00

41849
S/205/62/002/004/013/014
I015/I215

AUTHOR:

Puchkov, V.F.

TITLE:

The protective effect of phenatine and mercamine in the development of scleral papillae in the eyes of chick embryos following X-irradiation

PERIODICAL: Radiobiologiya, v.2, no.4, 1962, 611-615

TEXT: The effect of radioprotective substances on embryonal development following X-irradiation has been insufficiently studied. Experiments were carried out on chick embryos. An X-ray dose of 400r inhibits 50% of the scleral papillae, and a dose of 600r inhibits the development of almost all the papillae. Phenatine, at a dose of 2mg/egg, and mercamine, at a dose of 0.5mg/egg, do not affect the development of scleral papillae in the eyes of chick embryos. The injection of such doses into the yolk sac, prior to irradiation with 400r, brought about an increase in the number of papillae by 20-29%, but was less efficient at

Card 1/2

S/205/62/002/004/013/014
I015/I215

The protective effect of phenatine...

irradiation doses of 600r. The use of scleral papillæ of chick embryos for testing the efficiency of radio-protective substances, is suggested. There are 2 tables and 2 figures.

ASSOCIATION: Institut eksperimental'noy meditsiny AMN SSSR
(Institute of Experimental Medicine, AMS USSR) ✓
Leningrad

SUBMITTED: January 29, 1960

Card 2/2

PUCHKOV, V.F.

Effect of scleral papillae on the development of ossicles in
the eye of chick embryos. Dokl. AN SSSR 152 no.2:494-496 S '63.
(MIRA 16:11)

1. Institut eksperimental'noy meditsiny AMN SSSR. Predstavлено
академиком Н.Н. Аничковым.

PUCHKOV, V.F.

Critical period in the development of scleral papillae of the eye
in chick embryos detected by X irradiation. Radiobiologia 1 no.3:
437-439 '61. (MIRA 14:10)

1. Institut eksperimental'noy meditsiny AMN SSSR, Leningrad.
(EMBRYOLOGY--BIRDS) (EYE)
(X RAYS--PHYSIOLOGICAL EFFECT)

PUCHKOV, V. F.

Elektrifikatsiia zheleznykh dorog i sverkhskorostnyi transport. /Railroad electrification and the extra fast transportation. (Elektrifikatsiia zhel-dor. transporta, 1935, no. 6, p. 21-24).

DLC: TF701.E27

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

PUCHKOV, V.F.

Form-producing apparatus of scleral ossicles in the eye of a chick embryo. Arkh. anat., gist. i embr. 48 no.6:11-21 Je '65. (MIRA 18:7)

1. Laboratoriya embriologii (zav. - chlen-korrespondent AMN SSSR prof. P.G.Svetlov) Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad.

PUCHKOV, V.F.

Mechanism of the development of scleral papillae in chick embryo
eyes. Arkh.anat.,gist. i embr. 46 no.5:16-24 My '64.

(MIRA 18:2)

1. Laboratoriya embriologii (zav. - chlen-korrespondent AMN SSSR
prof. P.G.Svetlov) Instituta eksperimental'noy meditsiny AMN SSSR,
Leningrad. Adres avtora: Leningrad, P-22, Kirovskiy prospekt 69/71.
Institut eksperimental'noy meditsiny AMN SSSR, Laboratoriya
embriologii.

PUCHKOV, V.F.

Cytochemical changes in the cells of the pancreas following the
administration of pilocarpine. Trudy LSGMI 43:119-132 '59.

(MIRA 13:5)

(PANCREAS)

(PILOCARPINE)

17(4)
AUTHOR:

Puchkov, V. F.

SOV/20-125-3-62/63

TITLE:

Equivalent Stages in the Embryogeny of Chicken, Rat and Man
(Ekvivalentnyye vozrasty v embriogeneze tsyplenka, krysy i cheloveka)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 3, pp 684-687
(USSR)

ABSTRACT:

In connection with the investigation of the embryonic development often the problem arises at what time the embryos of different species of animals and man arrive at the same stage of ontogenesis. For this purpose the age of the embryos mentioned in the title had to be determined at which they are equal with respect to the stage of development. Such developmental stages were called equivalent (Ref 12). For this purpose the author compared the publication data on the development of the whole embryos, their organs and tissues. For each of the mentioned objects the time of appearing of anatomic, histological and functional developmental characteristics were recorded. After developmental characteristics of the 3 objects had been arranged in the order of appearance the author found that this order does not quite agree in the individual objects (in agreement with reference 12).

Card 1/3

Equivalent Stages in the Embryogeny of Chicken,
Rat and Man

SOV/20-125-3-62/63

Table 1 gives an example of the calculation of the developmental stages in which all 3 embryos mentioned in the title are equivalent in the age of four weeks and 2 days. Table 2 gives the arithmetic means thus calculated for the times of appearance of different characteristics in all three embryogenies. The same method was used for calculating equivalent developmental stages of the embryogenies of chicken and rat (Table 3). From the data supplied by table 2 the author plotted diagrams of equivalent developmental stages of chicken and human embryos (Fig 1). By comparing the corresponding values of table 3 and figure 1 the author was able to find them in rather good agreement. Thus, all three experimental objects are graphically connected and therefore it is possible to determine from any of them the equivalent developmental stages of the others. To a 6-day-old chicken embryo (from the beginning of incubation onwards) corresponds e.g. the human embryo at an age of 6 weeks and 1 day; a rat embryo of 14.5 days corresponds to both of them. The compiled tables do, however, not cover the entire embryonic period of all 3 experimental objects. For this purpose the description of their embryogeny is not detailed

Card 2/3

Equivalent Stages in the Embryogeny of Chicken,
Rat and Man

SOV/20-125-3-62/63

enough and too contradictory. The diagram given may, under account of these items, serve in the experimental work as a nomograph for the purpose of comparing the stages of embryonic development of the 3 experimental objects mentioned in the title. There are 1 figure, 3 tables, and 14 references, 5 of which are Soviet.

ASSOCIATION: Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR (Institute of Experimental Medicine of the Academy of Medical Sciences, USSR)

PRESENTED: November 28, 1958, by Ye. N. Pavlovskiy, Academician

SUBMITTED: November 25, 1958

Card 3/3

PUCHKOV, V. I., Cand Med Sci -- Effect of X-rays ^{up to} ~~on~~ the embryo-
genesis of ~~baby chickens~~ ^{chickens} in the light of the theory of ~~development~~
~~critical periods.~~ ^{of development} Len, 1961. (Min of Health USSR. Cen-
tral Sci Res Inst [Med] of Radiology) (KL, 8-61, 264)

- 510 -

PUCHKOV, V.G. [Puchkov, V.H.]

Fauna and ecology of true bugs of the Khoper State Preserve and
the vicinity of Ramoni. Pratsi Inst. zool. AN URSR 20:169-179
'64. (MIRA 18:4)

PUCHKOV, V.G. [Puchkov, V.H.]

Phylogenetic affinities among Procoreoidea (Heteroptera,
Coreoidea). Dop. AN URSR no.10:1393-1395 '61.
(MIRA 14:11)

1. Institut zoologii AN USSR. Predstavлено академиком AN USSR
A.P.Markevichem [Markevych, O.P.].
(Heteroptera, Fossil)

PUCHKOV, V.G.

New species of Heteroptera which damages perennial legumes in the
central chernozem belt. Ent. oboz. 32:76-81 '52. (MLRA 7:1)

1. Ramonskaya selektsionnaya stantsiya.
(Heteroptera) (Legumes--Diseases and pests)

PUCHKOV, V.O.

New method for controlling the sugar beet weevil (*Bothynoderes punctiventris*). Sakh.prom. 28 no.4:38-39 '54. (MLRA 7:7)

1. Institut zoologii Akademii nauk USSR.
(Beet pests) (Insecticides)

PUCHKOV, V.G.

Principal trophic group of phytophagous Hemiptera and the change
in feeding habits during their development. Zool.zhur. 35 no.1:
32-44 Ja '56. (MLRA 9:5)

1. Otdel bespozvonochnykh Instituta zoologii AN USSR.
(Hemiptera) (Phytophaga)

PUCHKOV, V.G.; PUCHKOVA, L.V.

Eggs and larvae of the true Heteroptera, pests of agricultural crops.
Trudy Vses. ent. Ob-va 45:218-342 '56. (MLRA 10:2)
(Heteroptera) (Larvae)

USSR/General and Special Zoology. Insects

P

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 25749

Author : Puchkov V.G., Puchkova L.V.

Author : Fuchs
Inst : Not Give

Author : PUCHKOV V.G. Inst : Not Given
Title : The EGGS and Larvae of Genuine Homoptera -- Pests of Agricultural Plants. (Yaitsa i lichinkinnastoyashchikh poluzh-
estkokrylykh--vrediteley sel'skokhozyaystvennykh kul'tur.)

Orig Pub : Tr. Vses. entomol. o-va, 1956, 45, 218-3⁴²

Abstract : These were descriptions and sketches of the bugs' eggs of the following families on the steppes and forests of the European part of USSR: Anthocoridae, Miridae, Nabidae, Coreidae, Pentatomidae, Lygaeidae, Pyrrhocoridae and identifications tables of the eggs of the first five families. Descriptions (and sketches) of the larvae of Miridae, Lygaeidae, Pyrrhocoridae, Coreidae, Pentatomidae and their identification tables were given. A table of the dimensions of the eggs, larvae and certain parts of their bodies was appended. The names of the bugs and their synonyms were indicated.

Card : 1/1

USSR / General and Specialized Zoology. Insects. Biology and
Ecology.

P

EC-01967
APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343520012-0"

Abs Jour : Ref Zhur - Biologiya, No 16, 1958, No. 73599

Author : Puchkov, V. G.

Inst : Zoological Museum AS UKrSS

Title : The Wandering Insect - *Notostira erratica*

Orig. Pub : Zb. prats' Zool. museyu. AN URSR, 1957, No 28, 62-67

Abstract : The distribution and the way of life of the insect *N. erraticus* in the forest steppe and southern part of forest zone are given. Field and laboratory observations are included that confirm that *N. tricostata* is only the autumnal form (second generation) of *N. erraticus*.

Card 1/1

21-1-23/26

AUTHORS: Puchkov, V.G. (V.H.)

TITLE: Some Morphological Peculiarities of the Abdominal Odoriferous Glands in Pentatomidae Larvae - Pentatomoidea, Hemiptera-Heteroptera (Nekotoryye osobennosti morfologii abdominal'nykh pakhuchikh zhelez lichinok shchitnikov - Pentatomoidea, Hemiptera-Heteroptera)

PERIODICAL: Dopovidi Akademii Nauk Ukrains'koi RSR, 1958, # 1, pp 100-104
(USSR)

ABSTRACT: The authors investigated odoriferous glands in the representatives of all the families and sub-families of Pentatomidae, and also some other families of the Semi-Coleoptera.

There are only 3 tergites carrying functioning odoriferous glands in Pentatomoidea larvae, while a number of species have the rudiments of a fourth odoriferous gland. All glands in Cydnidae and Plataspidae are unpaired. In Coptosoma scutellatum Gfr. they open in a wide slit, while in Cydnidae, as in other Pentatomidae, they open by means of lateral pores.

The larval stage of all five families of Pentatomoidea shows a tendency toward reduction of the odoriferous glands, which is manifested in: 1. A decrease in the size of the reservoirs, which is typical for all Pentatomidae except Acan-

.Card 1/2

21-1-23/26

Some Morphological Peculiarities of the Abdominal Odoriferous Glands in
Pentatomidae Larvae - Pentatomoidea, Hemiptera-Heteroptera

thosomidae and certain Podopinae; 2. The atrophy of the middle portion of the first gland and the formation of paired reservoirs in Acanthosomidae, Scutelleridae and Pentatomidae; and 3. The drawing together of the excretory pores, as noted in most Pentatomidae, or in the constriction of the excretory slit (*C. scutellatum*) accompanied by a decrease in the exhalatory surfaces.

The article contains 9 figures, 1 Russian, 1 French and 5 German references.

ASSOCIATION: Institute of Zoology (Instytut zoologii AN URSR) of the Ukrainian Academy of Sciences

PRESENTED: By Academician of the Ukrainian Academy of Sciences A.P. Markovich (Markovich)

SUBMITTED: 11 March 1957

AVAILABLE: Library of Congress
Card 2/2 1. Entomology 2. Medical research

PUCHKOV V. G.

COUNTRY : USSR
CATEGORY : General and Specialized Zoology. Insects. P
SUB-CAT. : Morphology.
PUB. NO. : 1958, No. 23, 1958, №. 105129
AUTHOR : Puchkova, I. V., Puchkov, V. G.
INST. : Academy of Sciences, Ukrainsk SSR
TITLE : Some Characteristics of the Morphology of Abdominal Scent Glands in the Larvae of Scale Insects.
CRIG. PUB. : Popovidi AN USSR, 1958, No. 1, 100-104
ABSTRACT : Larvae of the families Cydnidae, Plataspidae, Scutelleridae, Pentatomidae and Acanthosomatidae were studied. There are functioning odor glands (G) on three tergites, and a number of species retain rudiments of the fourth G. In Plataspidae and Cydnidae, the glands are azygous. In Coptosoma scutellatum (Plataspidae) they open in the form of a wide fissure, and in Cydnidae, as in rest of the scale insects, in the form of lateral pores which remain after the fissure is grown over. Characteristic of the larval stage is a

Card: 1/2

AUTHOR:

Puchkov, V.G.

SOV/21-58-11-28/28

TITLE:

Larvae of the Subfamily Blissinae (Heteroptera, Lygaeidae)
in the Fauna of the European Part of the USSR (Lichinki pod-
semeystva Blissinae (Heteroptera, Lygaeidae) fauny yevro-
peyskoy chasti SSSR)

PERIODICAL:

Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 11,
pp 1272-1274 (USSR)

ABSTRACT:

There are 11 species of the subfamily Blissinae within the boundaries of the USSR. They belong to three genera, each of which has 2 representatives in the fauna of the European part of the USSR. The larvae of these species are described in the present article on the basis of materials collected by the Institute of Zoology of the AS UkrSSR. A table is appended for identification of the larvae of stages II to V, based on a set of characters with indications of the plants they feed on and the periods when the larvae are encountered under natural conditions.

There are: 1 table, 1 set of drawings and 3 references,
2 of which are Soviet and 1 French.

Card 1/2

SOV/21-58-11-28/28

Larvae of the Subfamily Blissinae (Heteroptera, Lygaeidae) in the Fauna
of the European Part of the USSR

ASSOCIATION: Institut zoologii AN UkrSSR (Institute of Zoology of the
AS UkrSSR)

PRESENTED: By Member of the AS UkrSSR, A.P. Markevich

SUBMITTED: May 30, 1958

NOTE: Russian title and Russian names of individuals and institu-
tions appearing in this article have been used in the trans-
literation.

Card 2/2

PUCHKOV, V.G.

Larvae of true Hemiptera (Heteroptera). Pt. 1: Lygaeidae [with
summary in English]. Ent. oboz. 37 no. 2:392-413 '58. (MIRA 11:7)

• 1. Institut zoologii Akademii nauk USSR, Kiyev.
(Heteroptera)
(Larvae--Insects)

ZHITKEVICH, Ye.N., starshiy nauchnyy sotrudnik; PETRUKHA, Ye.I., kand. biolog.nauk; POZHAR, Z.A., kand.sel'skokhoz.nauk; SHEVCHENKO, V.N., kand.sel'skokhoz.nauk; BUTOVSKIY, A.P., starshiy nauchnyy sotrudnik, spetsialist entomolog i fitopatolog; GROMAKOV, P.M., starshiy nauchnyy sotrudnik, spetsialist entomolog i fitopatolog [deceased]; MARKOV, F.I., kand.biolog.nauk, spetsialist entomolog i fitopatolog; PUCHKOV, V.G., kand.biolog.nauk, spetsialist entomolog i fitopatolog; PALIY, V.F., doktor biolog.nauk, spetsialist entomolog i fitopatolog; POLEVOY, V.V., starshiy nauchnyy sotrudnik, spetsialist entomolog i fitopatolog; SHMELEVVA, V.A., kand.biolog.nauk, spetsialist entomolog i fitopatolog; ZVEREZOMB-ZUBOVSKIY, Ye.V., prof., doktor sel'skokhoz.nauk; KORAB, I.I., prof., doktor sel'skokhoz.nauk; MOROCHKOVSKIY, S.F., prof., doktor biolog.nauk; MURAV'YEV, V.P., prof.; SALJINSKAYA, N.I., kand.biolog.nauk; SAVCHENKO, Ye.N., red.; ZUBAREV, A.S., khudozh.-tekhn.red.

[Sugar beet growing] Svetkovodstvo. Izd.2., perer. i dop. Kiev, Gos.izd-vo sel'khoz.lit-ry USSR. Vol.3. Pt.1. [Sugar beet pests and their control] Vrediteli sakharinoi svetly i mery bor'by s nimi. Pt.2. [Sugar beet diseases and their control] Bolezni sakharinoi svetly i mery bor'by s nimi. 1959. 642 p. (MIRA 12:11)
(Continued on next card)

ZHITKEVICH, Ye.N.---(continued) Card 2.

1. Kiyev. Vsesoyuznyy nauchno-issledovatel'skiy institut sakhariny
svekly. 2. Vsesoyuznyy nauchno-issledovatel'skiy institut sakhariny
svekly (for Zhitkevich, Petrukha, Pozhar, Shevchenko). 3. Uladovo-
Lyulinetskaya optytno-selektionsnaya stantsiya Vsesoyuznogo nauchno-
issledovatel'skogo instituta sakhariny svekly (for Butovskiy). 4. Iva-
novskaya optytno-selekts. stantsiya Vsesoyuznogo nauchno-issledov.insti-
tuta sakhariny svekly (for Gromakov). 5. Kurgizskaya optytno-selekts.
stantsiya Vsesoyuznogo nauchno-issledov.instituta sakhariny svekly (for
Markov, Polevoy). 6. Veselopodolyanskaya optytno-sel. stantsiya Vsesoyuz-
nogo nauchno-issledov.instituta sakhariny svekly (for Puchkov). 7. Ra-
monskaya optytno-selekts.stantsiya Vsesoyuzn.nauchno-issledov.instituta
sakhariny svekly (for Paliy). 8. Pervomayskaya optytno-selekts.stantsi-
ya Vsesoyuznogo nauchno-issledov.instituta sakhariny svekly (for Shme-
leva). 9. Chleny-korresp. AN USSR (for Zverezomb-Zubovskiy, Murav'yev).
(Sugar beets--Diseases and pests)

3(5)

SOV/21-59-1-25/26

AUTHOR: Puchkov, V. G.

TITLE: Larvae of the Subfamily Heterogastrinae (Heteroptera, Lugaeidae) of the Ukrainian Fauna (Lichinki podsemeystva Heterogastrinae (Heteroptera Lugaeidae) fauny Ukrainskoy SSR)

PERIODICAL: Dopovidi Akademii nauk Ukrains'koi RSR, 1959, Nr 1, pp 98-100 (USSR)

ABSTRACT: The article gives the general morphological characteristics of the larvae of heterogastrinae in the Ukraine. Eight different species are described. There are 1 set of diagrams and 2 references, 1 of which is English and one unidentified.

ASSOCIATION: Institut zoologii AN UkrSSR (The Institute of Zoology of the AS UkrSSR)

PRESENTED: October 13, 1958, by A.P. Markevich, Member of the AS UkrSSR

Card 1/1

SOV/21-59-4-23/27

AUTHOR: Puchkov, V.G.

TITLE: Two New Species of the Tribe Thylini (Miridae,
Heteroptera)

PERIODICAL: Dopovidi Akademii nauk Ukrains'koi RSR, 1959, Nr 4,
pp 442-445 (USSR)

ABSTRACT: The article contains detailed physical descriptions
of two species of horse flies studied by the author.
Types of both species are kept in the Institut zoologii AN UkrSSR (Institute of Zoology of the AS
UkrSSR). The first species is the *Flagiognathus*
alyssi sp. nov. (Figure 1), encountered by the author
in various parts of the Crimea, in 1955-56. Another
species is the *Chlamydatus allii* sp.nov. (Figure 2)
collected by Frolova in the Voronezh oblast in

Card 1/2

Two New Species of the Tribe Phylini

SOV/21-59-4-23/27

1936 and by Shumakova in the Altay region. There
are 2 sketches.

ASSOCIATION: Institut zoologii AN UkrSSR (Institute of Zoology
of the AS UkrSSR)

PRESENTED: By V.G. Kas'yanenko, Member of the AS UkrSSR

SUBMITTED: November 29, 1958

Card 2/2

PUCHKOV, V.G.

Larvae of true bugs of the superfamily Pentatomoidea. Report
No.1: Keys to the families of Pentatomoidea and species of
Acanthosomidae, Cydnidae and Scutelleridae occurring in the
European part of the U.S.S.R. Zool.zhur. 38 no.8:1190-1206
Ag '59. (MIRA 12:11)

1. Department of Invertebrate Fauna, Institute of Zoology,
Academy of Sciences of the Ukrainian S.S.R., Kiyev.
(Heteroptera) (Larvae--Insects)

PUCHKOV, V.G. [Puchkov, V.H.]

Revision of the Hemiptera species of the Ukraine. Dop.**AN**
USSR no.3:367-371 '60. (MIRA 13:7)

1. Institut zoologii AN USSR. Predstavлено академиком AN USSR
A.P. Markevich [O.P. Markevych].
(Ukraine—Hemiptera)

PUCHKOV, V.G.

Ecology of some little-known species of true bugs (Heteroptera).
Report No.1. Ent. oboz. 39 no.2:300-312 '60. (MIRA 13:9)

1. Institut zoologii Akademii nauk Ukrainskoy SSR, Kiyev.
(Heteroptera) (Insects--Food)

PUCHKOV, V.G. [Puchkov, V.H.]

Characteristics of the larval stage of the land Hemiptera.
Dop. AN URSR no. 2:234-237 '61. (MIRA 14:2)

1. Institut zoologii AN USSR. Predstavлено академиком AN USSR A.P.
Markevichem. (Hemiptera) (Larvae--Insects)

PUCHKOV, V.G.

A new genus and two new species of the tribe Halticini Kirk.
(Miridae, Heteroptera) from the eastern part of the Ukraine.
Zool. zhur. 40 no. 1:25-30 Ja '61. (MIRA 14:2)

1. Institute of Zoology, Academy of Sciences of the Ukrainian
S.S.R., Kiev.
(Ukraine—Flea beetles)

PUCHKOV, V.G. [Puchkov, V.H.]

History of hemipterological research in the Ukraine. Pratsi
Inst. zool. AN URSR 30:3-8 '61. (MIRA 16:8)

PUCHKOV, V.G. [Puchkov, V.H.]

Larvae of the subfamily Geocorinae (Heteroptera, Lygaeidae)
in the Ukrainian S.S.R. Dop. AN URSR no.12:1639-1643 '61.
(MIRA 16:11)

1. Institut zoologii AN UkrSSR. Predstavлено академиком
АН UkrSSR A.P. Markevichem [Markevych, O.P.].

PUCHKOV, V.G. [Puchkov, V.H.]

Predatory hemiptera of the U.S.S.R. useful for agriculture
and forestry. Pratsi Inst. zool. AN URSSR 17:7-18 '61.

Leaf bugs (Heteroptera, Miridae) in Poltava Province. 71-85

Ecology of little-known hemiptera in the European part of the U.
S.S.R. Report No.2. 86-93 (MIRA 16:11)

PUCHKOV, V.G.

Ecology of true bugs in the western Caucasus. Vop. ekol. 7:
146-147 '62. (MIRA 16:5)

I. Institut zoologii AN UkrSSR, Kiyev.
(Caucasus—Heteroptera)

PUCHKOV, V.G.; KAS'YANENKO, V.G. [Kas'yanenko, V.H.], akademik, glav.
red.; BILANOVSKIV, I.D. [Bilanovs'kyi, I.D.], doktor biol. nauk,
red.; MARKEVICH, O.P. [Markevych, O.P.], akademik, red. toma,
red.; PIDOPLICHKO, I.G. [Pidoplichko, I.H.], doktor biol. nauk, red.;
PANASENKO, M.D., red. izd-va; ROZENTSVEYG, E.N., tekhn. red.

[Fauna of the Ukraine in forty volumes] Fauna Ukrayiny; v soroka te-
makh. Red. kolegia: I.D.Bilanovs'kyi ta inshi. Kyiv, Vyd-vo Akad.
nauk UkrSSR. Vol.21. [Pentatomoidea] Shchytnyky. №.1. 1961. 338 p.
(MIRA 14:10)

1. Akademiya USSR (for Kas'yanenko, Markevich).
(Pentatomoidea)

PUCHKOV, V.G. [Puchkov, V.H.]

Subfamily Artheneinae (Heteroptera, Lygaeidae) in the Ukrainian
S.S.R. [with summary in English]. Dop. AN URSR no. 3:371-374 '61.
(MIRA 14:3)

1. Institut zoologii AN USSR. Predstavлено академиком AN USSR
A.P. Markevichem.
(Ukraine—Lygaeidae)

Puchkov v.s.

MYASNIKOV, V.G., inzh.; PUCHKOV, V.G., inzh.; CHERNOPOEROV, N.Ye., inzh.

Mobile crushing and grading plant. Mekh.stroi. 14 no.7:21 J1 '57.
(MIRA 10:11)

(Crushing machinery)

PUCHKOV, V.G. [Puchkov, V.H.]; MARKEVICH, O.P. [Markevych, O.P.],
akademik, red. toma; KAS'YANENKO, V.G. [Kas'ianenko, V.H.],
akademik, glav. red.; PIDOPLICHKO, I.G. [Pidoplichko, I.H.],
doktor biol. nauk, red.; BOSHKO, G.V. [Boshko, H.V.], kand.
biol. nauk, red.; PANASENKO, M.D., red. izd-va; RAKHLINA,
N.P., tekhn. red.

[Fauna of the Ukraine; in forty volumes] Fauna Ukrayny; v soroka
tomakh. Red. V.H. Kas'yanenko ta inshi. Kyiv, Vyd-vo Akad. nauk
URSR. Vol. 21 [Coreoidea] Kraiovky. No. 2. Puchkov, V.H. 1962.
(MIRA 15:7)
161 p.

1. Akademiya nauk USSR (for Kas'yanenko, Markevich).
(Ukraine--Coreoidea) (Ukraine--Leeches)

PUCHKOV, V.N.

Reviews. Geotektonika no.6:95-110 N-D '65.

(MIRA 19:1)

1. Institut geologii Komi filiala AN SSSR, gorod Syktyvkar.
Submitted March 3, 1965.

PUCHKOV, V.N.

Origin of the rift seas. Izv. AN SSSR Ser. geol. 29 no.3852-68
Mr. '64 (MIRA 17:3)

1. Institut geologii Komi filiala AN SSSR, g. Syktyvkar.

DOBROVIN, N.A.; ZELEVINSKAYA, N.G.; MAKSYMENKO, V.M.; PUCHKOV, V.S.;
SLAVATINSKIY, S.A.

Pulsed spectrum of π -mesons generated in nucleon interactions
involving energies of hundreds of Bev. Izv. AN SSSR. Ser. fiz.
28 no.11:1751-1754 N '64. (MIRA 17:12)

1. Fizicheskiy institut im. P.N. Lebedeva AN SSSR.

ACC NR: AT6028993

SOURCE CODE: UR/0000/66/000/000/0310/0315

AUTHORS: Mikhaylovskiy, L. K.; Balakov, V. F.; Puchkov, V. S.; Radchenko, V. F.

ORG: none

TITLE: Mixing of electromagnetic signals on a magnetically monoaxial ferrite

SOURCE: Vsesoyuznoye soveshchaniye po ferritam. 4th, Minsk. Fizicheskiye i fiziko-khimicheskiye svoystva ferritov (Physical and physicochemical properties of ferrites); doklady soveshchaniya. Minsk, Nauka i tekhnika, 1966, 310-315

TOPIC TAGS: ferrite, magnetic property, magnetic material, electromagnetic mixing

ABSTRACT: The possibility of constructing ferrite mixers for use in the 4-mm wavelength range was investigated. This work supplements the results of K. M. Polivanov, L. K. Mikhaylovskiy, S. A. Medvedev, B. P. Pollak, and V. F. Balakov (Sb. Ferrity, Izd. AN BSSR, Minsk, 567, 1960). The experiments were carried out on magnetically mono-axial ferrite specimens. The experimental procedure was identical to the one described by L. K. Mikhaylovskiy, V. P. Makarishchev, B. P. Pollak, and V. A. Fabrikov (Radiotekhnika i elektronika, No. 7, 1178, 1961). It was found that the intensity of the intermediate signal P_{int} was given by $P_{int} = AP_s P_g$, where A is a constant characteristic of the particular ferrite, P_s -- the intensity of the ultrahigh frequency signal, and P_g -- the intensity of the heterodyne signal respectively.

Card 1/2

ACC NR: AT6028993

The authors conclude that it is possible, in principle, to mix two electromagnetic signals in the millimeter wavelength region by means of magnetically monoaxial ferrites at relatively small external magnetizing fields. Orig. art. has: 5 equations.

SUB CODE: 09, 11/ SUBM DATE: 22Dec65/ ORIG REF: 003
20

Card 2/2

SECHERBAKOV, V.K., doktor tekhn.nauk, prof., otv. red.; ZHURAVLEV,
V.G., red.; BURTSEV, Yu.F., red.; PUCHKOV, V.S., red.

[Materials for a Scientific and Technical Conference on
Problems of the Joint Operation of Young-distance Power
Transmission Lines and Intermediate Systems; presented by
the workers of the departments of electric power plants
and electrical systems and networks of the Novosibirsk
Electrical Engineering Institute] Materialy k Nauchno-
tekhnicheskemu soveshchaniyu po voprosam sovmestnoi raboty
dal'nikh elektroperedach i promezhutochnykh sistem; pred-
stavleny sotrudnikami kafedr elektricheskikh stantsii i
elektricheskikh sistem i setei NETI. Novosibirsk, 1963. 93 p.
(MIRA 17:9)

1. Novosibirsk. Elektrotekhnicheskiy institut.

DOBROTIN, N.A.; ZELEVINSKAYA, N.G.; KOTEL'NIKOV, K.A.; MAKSIMENKO, V.M.;
PUCHKOV, V.S.; SLAVATINSKIY, S.A.; SMORODIN, Yu.A.

Phenomenological picture of the generation of secondary particles
in nucleon interactions at energies of hundreds and thousands
of Bev. Izv. AN SSSR. Ser. fiz. 29 no.9:1627-1630 S '65.
(MIRA 18:9)